

## **I. AMENDMENTS TO CLAIMS**

Claims 1-31 (Cancelled).

Claim 32 (Presently Amended): A method of detecting the presence of an analyte in a sample, the method comprising:

contacting said sample with a pore assembly comprising one or more pore-subunit polypeptides sufficient to form a pore, the pore comprising at least a first channel, wherein at least one of said pore-subunit polypeptides is a modified pore-subunit polypeptide comprising a pore-subunit polypeptide covalently linked to a an exogenous sensing moiety capable of preferentially binding with the a specific analyte; and

detecting an electrical current through at least a first channel, wherein a modulation in current compared to a current measurement in a control sample lacking said analyte indicates the presence of said analyte in said sample.

Claim 33 (Original): The method of claim 32, wherein said electrical current is detected through a single channel.

Claim 34 (Original): The method of claim 32, wherein said electrical current is detected through at least two channels.

Claim 35 (Original): The method of claim 32, wherein said analyte is known.

Claim 36 (Original): The method of claim 32, wherein said analyte is unknown.

Claim 37 (Original): The method of claim 32, wherein said analyte is an oligonucleotide.

Claim 38 (Original): The method of claim 32, wherein the amount of said analyte in said sample is quantitated.

Claims 39-42 (Cancelled)